INSTRUCTIONS
FOR
CONTINUED AIRWORTHINESS
DOCUMENT

In accordance with EASA CS 25.1529/FAR 25.1529, Appendix H

For 365 Aerospace Modification:

MOD-0054 – Cockpit Voice Recorder (CVR) Switch Installation

ICA Document No: ICA-0054-002
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DOCUMENT APPROVAL

A. With reference to any change/modification referenced in this document, the technical content of the supplemental information associated with any listed change/modification is approved under the authority of DOA No. EASA.21J.575.

B. With reference to any Owner/Operator/Supplier change or modification, the technical content of the supplemental information associated with any listed change/modification is approved under the authority of the named Owner/Operator/Supplier of the source documents. The Owner/Operator/Supplier of the source documents has given the compiler the rights to use their information in order to produce this document.

C. The Checking process will include a verification of technical consistency with the associated change/modification and any compliance documentation which may relate to effectivity, description, effects on airworthiness and environmental protection especially when limitations are changed or affected.

D. The approval process will include ultimate verification of the Instructions for Continued Airworthiness by a 365 Aerospace Ltd Certification Verification Engineer.

Checked: [Signature]  Print Name: M. Hills

CVE
Approved: [Signature]  Print Name: D. Jackson
HIGHLIGHTS

Any future amendments to this document are detailed here…
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This document is to be used in conjunction with the related aircraft’s manuals, as prescribed in the Contents Page of this Section 00. The information contained within this manual relates to various customer orientated changes that have been carried out on the associated aircraft. A list of effective customer orientated changes can be found in the Change/Modification List section of this document. These changes/modifications are in addition to the initial design of the aircraft and are therefore detailed within this manual using appropriate and related convention.

RR-00
INTRODUCTION

1. Scope

The purpose of this document is to provide Instructions for Continued Airworthiness in accordance with EASA CS 25.1529/FAR 25.1529. Appendix H

2. Information about sections of this document

2.1 Instructions for Continued Airworthiness – ICA-XX

(1) This section lists and prescribes continuing airworthiness information for an individual change/modification. Its convention is informative so that it obligates the aircraft operator to include certain information provided by this document into relevant operational manuals, including, but not exclusive to, the operators aircraft scheduled maintenance program.

2.2 Instructions for Continued Airworthiness – WDM, AWM, IPC, AMM, etc. (if applicable)

(1) These sections were prepared by 365 Aerospace Ltd and are in accordance with Air Transport Association of America Specification No. 100, Specification for Manufacturers Technical Data. The data contained within is related to certain changes/modifications that are in addition to the associated airplane's type design.

NOTE: THIS SUPPLEMENTAL INFORMATION PREPARED SPECIFICALLY TO COVER THE AIRPLANE(S) LISTED IN THE "LIST OF EFFECTIVE AIRCRAFT" SECTION.

THIS MANUAL IS NOT SUITABLE FOR USE, INCLUDING WITHOUT LIMITATION, GENERAL INSTRUCTIONS OR TRAINING, FOR ANY AIRPLANES NOT LISTED HEREIN.

(2) The convention for the use of these sections is in the same convention (ATA 100) as the associated OEM manuals. Therefore, this publication is deemed as SUPPLEMENTAL to the associated OEM manuals, and instructions on how to use the data is the same.
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ICA-01 Cockpit Voice Recorder (CVR) Switch Installation

1.1 General

(1) This section relates to 365 Aerospace Ltd’s Modification No. MOD-0054.

(2) Modification of the associated aircraft and aircraft type, for which the above modification relates, obligates the aircraft operator to include pertinent maintenance information provided by this document into the operators aircraft scheduled maintenance program.

(3) In the event of conflicting or contradictory instruction between any aircraft manual data and this document, 365 Aerospace should be consulted before implementing the use of the instructions.

1.2 Airworthiness Limitations

(1) The Airworthiness Limitations section is approved and variations must also be approved.

(2) Those limitations and procedures previously approved by National Authorities, OEMs, etc., and not contained in this document are unchanged.

(3) In relation to the Modification above, certain operational approvals require that the aircraft and/or systems comply with specified design requirements. Where this modification records compliance with those design requirements this will not be taken as acceptance by the Agency of compliance with the relevant operational requirements, for which further justification may be required.

1.3 Additional EWIS Tasks

(1) No additional EWIS Tasks are required for the implementation and Continued Airworthiness of this modification. However, the following existing EWIS ICA tasks are identified as applicable:

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<td>RS</td>
<td>Restore (Clean) the areas behind the rudder pedals and centre console (flight control panels / consoles removal is not required). (EZAP)</td>
<td>36000 Cycles or 10 Years</td>
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<td>MRB 20-004</td>
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<td>Restore (Clean) the areas under the raceway cover plates on both sides of the flight compartment. (EZAP)</td>
<td>36000 Cycles or 10 Years</td>
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<td>MRB 20-006</td>
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<td>Restore (Clean) the areas in the P6 and P18 panels. (EZAP)</td>
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<td>MRB 20-008</td>
<td>DET</td>
<td>Inspect (Detailed) the wire bundles and connected EWIS in the P6 and P18 panels. (EZAP)</td>
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<td>MRB 53-802</td>
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<td>MRB 53-804</td>
<td>GVI</td>
<td>Internal - Zonal (GV) Flight Compartment (with access provided) (EZAP). ACCESS NOTE: seats removed, control stand access panels, overhead and sidewall panels, floor panels. INTERVAL NOTE: The EZAP inspection requirement with interval of 36000 CYC / 10 YRS is satisfied by this zonal inspection.</td>
<td>36000 Cycles or 8 Years</td>
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CHAPTER

23

COMMUNICATIONS
1. General
   A. This procedure has two tasks.
      (1) One task is an operational test.
      (2) One task is a system test.
   B. Use this procedure to make sure these components operate correctly:
      (1) Voice recorder control panel on the pilot's overhead panel, PS.
      (2) Voice recorder on the right side of the aft cargo compartment.
      (3) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
          Voice Recorder AUTO/ON switch on the pilot's overhead panel, PS.

2. Operational Test - Voice Recorder System
   A. Standard Tools and Equipment
      (1) Headphone Set
   B. References
      (1) 24-22-00/201, Manual Control
   C. Access
      (1) Location Zone
          101   Control Cabin, Left
          102   Control Cabin, Right
   D. Prepare for the Operational Test.
      (1) Supply electrical power CAMM 24-22-00/201).
      (2) Make sure these circuit breakers are closed:
          (a) P18 Circuit Breaker Panel
              1) C107, VOICE RCDR
              2) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
                 C1537, VOICE RCDR RELAY
          (b) P6 Circuit Breaker Panel
              1) C239, CAPT INPH 2 PWR
              2) C560, F/O INPH 2 PWR
              3) C083, CAPT AUDIO
              4) C085, OBS AUDIO
              5) C086, F/O AUDIO
      (3) Connect the headphone into the HEADSET jack on the control panel for the voice recorder (P5).
(4) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
Set the voice recorder AUTO/ON switch to the ON position.

NOTE: Both engines must be off for at least five minutes.

(a) Make sure that the AUTO/ON switch stays in the ON position.
(b) Make sure that you can hear flight deck conversation in the headset.

E. Operational Test.

(1) Do the Operational Test for the Voice Recorder:
   (a) AIRPLANES WITH VOICE RECORDER CONTROL PANEL WITH STATUS LIGHT;
       Push the TEST switch on the voice recorder control panel (P5) for approximately 1/2 second.
       1) Make sure that the STATUS Light comes on momentarily while you push the TEST switch.
       2) Make sure that you hear a tone in the headphone while you push the TEST switch.

   (b) AIRPLANES WITH VOICE RECORDER CONTROL PANEL WITH METER;
       Push the TEST switch on the voice recorder control panel for approximately five seconds.
       1) Make sure the needle on the voice recorder control panel monitor meter moves and stays in the green area while you push the TEST switch.
       2) Make sure you hear a tone in the headphone while you push the TEST switch.

F. Put the Airplane Back to the Usual Condition:

(1) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
Set the voice recorder AUTO/ON switch to the AUTO position.

(2) Remove the headphone from the control panel.

(3) Remove electrical power if it is not necessary (AMM 24-22-00/201).

3. System Test - Voice Recorder System

A. General

(1) This procedure has three tests.
   (a) The Four Channel Test makes sure that the voice recorder operates correctly on all four channels.
   (b) The Bulk Erase Test makes sure that the voice recorder will erase only when the airplane is on the ground with the parking brake set.
   (c) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
       The Voice Recorder AUTO/ON Switch Test makes sure that the voice recorder operates at different AUTO/ON switch and engine start lever positions.

B. Standard Tools and Equipment

(1) Headphone Set
C. References
(1) 10-11-00/201, Normal Parking
(2) 24-22-00/201, Manual Control

D. Access
(1) Location Zones
   101  Control Cabin, Left
   102  Control Cabin, Right

E. Procedure
(1) Supply electrical power if it is necessary (AMM 24-22-00/201).
(2) Connect the headphone into the HEADSET or HEADPHONE jack on the voice recorder control panel.
(3) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
    Make sure that the Left and right engine start Levers are set to the OFF positions.
(4) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
    Set the voice recorder AUTO/ON switch to the ON position.
    NOTE: Both engines must be off for at least five minutes.

F. Four Channel Test
(1) Put a cover on the area microphone on the control panel for the voice recorder.
(2) Do the channel test for the captain's jack panel:
   (a) Connect the boom microphone headset to the captain's jack panel.
   (b) Push the INT switch on the captain's audio selector panel.
   (c) Speak into the boom microphone.
   (d) Make sure that you hear your voice through the headphone at the control panel.
       NOTE: When you do a test of the digital or solid state voice recorder, you will hear your voice in the headset as you speak. When you do a test of the analog or tape based voice recorder, you will hear your voice in the headset after approximately a 0.5 second delay.
   (e) Remove the boom microphone headset from the captain's jack panel.
(3) Do the channel test for the first officer's jack panel:
   (a) Connect the boom microphone headset to the first officer's jack panel.
   (b) Push the INT switch on the first officer's audio selector panel.
   (c) Speak into the boom microphone.
(d) Make sure that you hear your voice through the headphone at the control panel.

NOTE: When you do a test of the digital or solid state voice recorder, you will hear your voice in the headset as you speak. When you do a test of the analog or tape based voice recorder, you will hear your voice in the headset after approximately a 0.5 second delay.

(e) Remove the boom microphone headset from the first officer's jack panel.

(4) Do the channel test for the first observer's jack panel:
(a) Connect a boom microphone headset or a hand mic and headphone, as applicable, to the first observer's jack panel.

(b) Push the INT switch on the first observer's audio selector panel.

(c) Speak into the boom microphone or hand mic.

(d) Make sure that you hear your voice through the headphone at the control panel.

NOTE: When you do a test of the digital or solid state voice recorder, you will hear your voice in the headset as you speak. When you do a test of the analog or tape based voice recorder, you will hear your voice in the headset after approximately a 0.5 second delay.

(e) Remove the boom microphone headset or hand mic and headphone from the first observer's jack panel.

(5) Do the channel test for the area microphone:
(a) Remove the cover from the area microphone.

(b) Speak at a usual voice level while you are approximately four feet away from the area microphone.

(c) Make sure that you hear your voice through the headphone at the control panel.

NOTE: When you do a test of the digital or solid state voice recorder, you will hear your voice in the headset as you speak. When you do a test of the analog or tape based voice recorder, you will hear your voice in the headset after approximately a 0.5 second delay.

G. Bulk Erase Test

(1) Do the Bulk Erase Test:
(a) Make sure the airplane is in the usual parked position, with chocks at each wheel (AMM 10-11-00/201).

(b) Set the parking brake (AMM 10-11-00/201).
(c) Push the ERASE switch for two to three seconds.
   1) Make sure you hear a modulated sound through the headphone for four to
      seven seconds.

WARNING: MAKE SURE CHOCKS ARE AT EACH WHEEL. INJURY TO PERSONS AND DAMAGE TO
EQUIPMENT CAN OCCUR.

(d) Release the parking brake (AMM 10-11-00/201).

(e) Push and hold the ERASE switch for two to three seconds.
   1) Make sure that you do not hear a modulated sound.

(f) Set the parking brake (AMM 10-11-00/201).

H. AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
Voice Recorder AUTO/ON Switch Test

(1) TEST WITHOUT ENGINES RUNNING

NOTE: Additional relays are added to turn the CVR "on" when either engine is
running, and to have a 5 minute time delay in turn off after the
engine(s) are shut down. Therefore, the CVR will function approx. 5
minutes upon power up and immediately following engine shut down. This
is normal operation.

(a) Close all applicable circuit breakers to the CVR system.

(b) At the P5 overhead panel, at the cockpit voice recorder (CVR) control
panel, connect a 600 ohm headset to the CVR monitor jack.

(c) Make sure the CVR AUTO/ON switch is in the AUTO position.

(d) Make sure ambient cockpit audio is not heard over the headset. The CVR is
OFF.

(e) On the CVR P5 control panel; AIRPLANES WITH VOICE RECORDER CONTROL PANEL
WITH METER; Make sure that the voice recorder control panel meter needle
does not move while you push the TEST switch. AIRPLANES WITH VOICE
RECORDER CONTROL PANEL WITH TEST LIGHT; Make sure that the TEST light does
not come on while you push the TEST switch.

(f) Make sure the CVR AUTO/ON switch is in the ON position.

(g) Make sure you hear flight deck conversation in the headset. The CVR is ON.

(h) On the P5 control panel and make sure that; AIRPLANES WITH VOICE RECORDER
CONTROL PANEL WITH METER; Make sure that the voice recorder control panel
meter needle moves and stays in the green area while you push the TEST
switch. AIRPLANES WITH VOICE RECORDER CONTROL PANEL WITH TEST LIGHT; Make
sure that the TEST light comes on while you push the TEST switch.

(i) At the P18-2 panel, open circuit breaker (C9500) VOICE RECORDER RELAY.
(j) Make sure the CVR Auto/On switch automatically switches to the AUTO position.

(k) Make sure you cannot hear flight deck conversation in the headset. The CVR is OFF.

(l) Close circuit breaker (C9500) VOICE RECORDER RELAY.

(2) TEST WITH ENGINES RUNNING

NOTE: Additional relays are added to turn the CVR "on" when either engine is running, and to have a 5 minute time delay in turn off after the engine(s) are shut down. Therefore, the CVR will function approx. 5 minutes upon power up and immediately following engine shut down. This is normal operation.

(a) Make sure the CVR AUTO/ON switch is in the AUTO position.

(b) Start No. 1 Engine Per AMM 71-00-00/201, ensure the No. 1 Eng N2 Gauge is >46.33%.

(c) Make sure you hear flight deck conversation in the headset. The CVR is ON.

(d) Shut down No.1 Eng Per AMM 71-00-00/201.

(e) Wait six minutes.

   NOTE: The CVR switch circuit relay R9500 will turn the CVR off after five minutes.

(f) Make sure you cannot hear flight deck conversation in the headset. The CVR is OFF.

(g) Start No. 2 Engine Per AMM 71-00-00/201, ensure the No. 2 Eng N2 Gauge is >46.33%.

(h) Make sure you hear flight deck conversation in the headset. The CVR is ON.

(i) Shut down No.2 Eng Per AMM 71-00-00/201.

(j) Wait six minutes.

   NOTE: The CVR switch circuit relay R9500 will turn the CVR off after five minutes.

(k) Make sure you cannot hear flight deck conversation in the headset. The CVR is OFF.
I. Put the Airplane Back to the Usual Condition

(1) Remove the headphone from the control panel.

(2) AIRPLANES WITH VOICE RECORDER AUTO/ON SWITCH;
Set the voice recorder AUTO/ON switch to the AUTO position.

(3) Remove electrical power if it is not necessary (AMM 24-22-00/201)